

FIGURE 1A

387	GCC CGC CAG GTC	396	TAC GGC TTA AAC	405	TTT GCA AGT AAA	414	GAA GAG GCA ACC	423	ACG ACG TTC	432
	A R Q V Y G L N F A S K E E A T T F									
441	TCC AAT GCA ATG CTG TTT	450	GCC CTG AAC ATC ATG AAT	459	TCC CAA GAA GGA GGC	468	CCC	477	CCC	486
	S N A M L F A L N I M N S Q E G G P									
495	TCC AGC CAG CCG CAG GTG	504	CAG AAT GGC CCC TCT CCT	513	GAT GAG ATG GAC	522	ATC CAG	531	ATC CAG	540
	S S Q R Q V Q N G P S P D E M D I Q									
549	AGA AGA CAA GTG ATG	558	GAG CAC CAG CAG CAG CGT	567	CAG GAA TCT CTA	576	GAA AGA	585	AGA	594
	R R Q V M E Q H Q Q Q R Q E S L E R									
603	AGA ACC TCG GCC ACA GGG	612	CCC ATC CTC CCA CCA GGA	621	CAT CCT TCA TCT	630	GCA GCC	639	GCA GCC	648
	R T S A T G P I L P P G H P S S A A									
657	AGC GCC CCC GTC TCA TGT	666	AGT GGG CCT CCA CCG	675	CCC CCA CCT CTA	684	GTC CCA	693	GTC CCA	702
	S A P V S C S G P P P P P P L V P									
711	CCT CCA CCC ACT GGG GCT	720	ACC CCA CCT CCC CCA	729	CTG CCA GCC	738	GGA	747	GGA	756
	P P P T T G A T P P P P P L P A G G									

FIGURE 1B

765	774	783	792	801	810
GCC CAG GGG TTC CAC GAC GAG AGC TCC ATG TCA GGA CTG GCC GCT GCC ATA					
A Q G S S H D E S S M S G L A A A I					
819	828	837	846	855	864
GCT GGG GCC AAG CTG AGA AGA GTC CAA CGG CCA GAA GAC GCA TCT GGA GGC TCC					
A G A K L R R V Q R P E D A S G G S					
873	882	891	900	909	918
AGT CCC AGT GGG ACC TCA AAG TCC GAT GCC AAC CGG GCA AGC AGC GGG GGT GGC					
S P S G T S K S D A N R A S S G G G					
927	936	945	954	963	972
GGA GGA GGC CTC ATG GAG GAA ATG AAC AAA CTG CTG GCC AAG AGG AGA AAA GCA					
G G G L M E E M N K L L A K R R K A					
981	990	999	1008	1017	1026
GCC TCC CAG TCA GAC AAG CCA GCC GAG AAG AAG GAA GAT GAA AGC CAA ATG GAA					
A S Q S D K P A E K K E D E S Q M E					
1035	1044	1053	1062	1071	1080
GAT CCT AGT ACC TTC CCC TCT CCG GGG ACC CGA GCA GCC AGC CAG CCA CCT AAC					
D P S T S P S P G T R A A S Q P P N					
1089	1098	1107	1116	1125	1134
TCC TCA GAG GCT GGC CGG AAG CCC TGG GAG CGG AGC AAC TCG TTG GAG AAG CCT					
S S E A G R K P W E R S N S V E K P					

FIGURE 1C

1143	1152	1161	1170	1179	1188
GTG TCC TCG ATT CTG TCC AGA ACC CCG TCT GTG GCA AAG AGC CCC GAA GCT AAG					
V S S I L S R T P S V A K S P E A K					
1197	1206	1215	1224	1233	1242
AGC CCC CTT CAG TCG CAG CCT CAC TCT AGG ATG AAG CCT GCT GGG AGC GTG AAT					
S P L Q S Q P H S R M K P A G S V N					
1251	1260	1269	1278	1287	1296
GAC ATG GCC CTG GAT GCC TTC GAC TTG GAC CGG ATG AAG CAG GAG ATC CTA GAG					
D M A L D A F D L D R M K Q E I L E					
1305	1314	1323	1332	1341	1350
GAG GTG GTG AGA GAG CTC CAC AAG GTG AAG GAG GAG ATC ATC GAC GCC ATC AGG					
E V V R E L H K V K E E I I D A I R					
1359	1368	1377	1386	1395	1404
CAG GAG CTG AGT GGG ATC AGC ACC ACG TAA GGG GCC GGC CTC GCT GCG CTG ATT					
Q E L S G I S T T					
1413	1422	1431	1440	1449	1458
CGT CGA GCC CAT CCG GCG ACA GAG GAC AGC CAG AAG CCC AGC CAG CCC CAG ACT					
1467	1476	1485	1494	1503	1512
CCA GTG CAC CAG AGC ACG CAC AGG AGC CTG GCG GCG CTG CTG TGA AAC GTC CTG					

FIGURE 1D

1521	1530	1539	1548	1557	1566
ACC TGT GAT CAC ACA TGA CAG TGA GGA AAC CAA GTG CAA CTC CTG GGT TTT TTT					
1575	1584	1593	1602	1611	1620
TAG ATT CTG CCT GAC ACG GAA CAC CAG GTC TGC TCG TCT TTT TTG TGT TTT ATA					
1629	1638	1647	1656	1665	1674
TTT GCT TAT TTA AGG TAC ATT TCT TTG GGT TTC TAG AGA CGC CCC TAA GTC ACC					
1683	1692	1701	1710	1719	1728
TGC TTC ATT AGA CGG TTT CCA GGT TTT CTC CCA GGT GAC GCT GTT AGC GCC TCA					
1737	1746	1755	1764	1773	1782
GCT GGC GGT GAC AGC CGG CCC AGC GTG GCG CCA CCA CAC ACC GCA GAG CTG TCC					
1791	1800	1809	1818	1827	1836
AGG CAC AGC TCC GTC CCC AGC GCT CAT GGT GTT GAA ACT GTC TGT CAT GCA CCA					
1845	1854	1863	1872	1881	
CGG TGT CTG TGT CCA CAC AGT AAT AAA CGG TTT ACT GTC CGC AAA AAA AA AA 3'					

FIGURE 1E

1	M	A	T	S	E	Q	S	I	C	Q	A	R	A	S	V	M	V	Y	D	D	T	S	K	K	W	V	P	I	K	P	3089412
1	M	-	-	S	E	Q	S	I	C	Q	A	R	A	S	V	M	V	Y	D	D	T	S	K	K	W	V	P	I	K	P	GI 1644453
1	M	-	-	S	E	T	V	I	C	S	S	R	A	T	V	M	L	Y	D	D	G	N	K	R	W	L	P	A	G	T	GI 624964
31	G	Q	Q	G	F	S	R	I	N	I	Y	H	N	T	A	S	N	T	F	R	V	V	G	V	K	L	Q	-	D	Q	3089412
29	G	Q	Q	G	F	S	R	I	N	I	Y	H	N	T	A	S	S	T	F	R	V	V	G	V	K	L	Q	-	D	Q	GI 1644453
29	G	P	Q	A	F	S	R	V	Q	I	Y	H	N	P	T	A	N	S	F	R	V	V	G	R	K	M	Q	P	D	Q	GI 624964
60	Q	V	V	I	N	Y	S	I	V	K	G	L	K	Y	N	Q	A	T	P	T	F	H	Q	W	R	D	A	R	Q	V	3089412
58	Q	V	V	I	N	Y	S	I	V	K	G	L	K	Y	N	Q	A	T	P	T	F	H	Q	W	R	D	A	R	Q	V	GI 1644453
59	Q	V	V	I	N	C	A	I	V	R	G	V	K	Y	N	Q	A	T	P	N	F	H	Q	W	R	D	A	R	Q	V	GI 624964
90	Y	G	L	N	F	A	S	K	E	E	A	T	T	F	S	N	A	M	L	F	A	L	N	I	M	N	S	Q	E	G	3089412
88	Y	G	L	N	F	A	S	K	E	E	A	T	T	F	S	N	A	M	L	F	A	L	N	I	M	N	S	Q	E	G	GI 1644453
89	W	G	L	N	F	G	S	K	E	D	A	A	Q	F	A	A	G	M	A	S	A	L	E	A	L	E	G	G	G	P	GI 624964
120	G	P	S	S	Q	-	-	-	R	Q	V	Q	N	G	P	S	P	D	E	M	D	I	Q	R	R	Q	V	M	E	Q	3089412
118	G	P	S	T	Q	-	-	-	R	Q	V	Q	N	G	P	S	P	E	E	M	D	I	Q	R	R	Q	V	M	E	Q	GI 1644453
119	P	P	P	P	A	L	P	T	W	S	V	P	N	G	P	S	P	E	E	V	E	Q	Q	K	R	Q	-	-	-	-	GI 624964
147	H	Q	Q	Q	R	Q	E	S	L	E	R	R	T	S	A	T	G	P	I	L	P	P	G	H	P	S	S	A	A	S	3089412
145	-	-	Q	H	R	Q	E	S	L	E	R	R	I	S	A	T	G	P	I	L	P	P	G	H	P	S	S	A	A	S	GI 1644453
145	-	Q	P	G	P	S	E	H	I	E	R	R	V	S	N	A	G	G	-	-	P	P	A	P	P	A	G	G	P	P	GI 624964

FIGURE 2A

FIGURE 2B

349	A	K	S	P	E	A	K	S	P	L	Q	S	Q	P	H	S	R	M	K	P	A	G	S	V	N	D	M	A	L	D	3089412
341	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	V	K	P	A	G	S	V	N	D	V	G	L	D	GI 1644453
321	-	K	S	S	S	V	T	S	E	T	Q	P	C	T	P	S	S	-	-	-	-	-	-	-	-	-	-	-	-	D	GI 624964
379	A	F	D	L	D	R	M	K	Q	E	I	L	E	E	V	V	R	E	L	H	K	V	K	E	E	I	I	D	A	I	3089412
354	A	L	D	L	D	R	M	K	Q	E	I	L	E	E	V	V	R	E	L	H	K	V	K	E	E	I	I	D	A	I	GI 1644453
341	Y	S	D	L	Q	R	V	K	Q	E	L	L	E	E	V	K	K	E	L	Q	K	V	K	E	E	I	I	E	A	F	GI 624964
409	R	Q	E	L	S	G	I	S	T	T	3089412																				
384	R	Q	E	L	S	G	I	S	T	T	GI 1644453																				
371	V	Q	E	L	R	K	R	G	S	P	GI 624964																				

FIGURE 2C

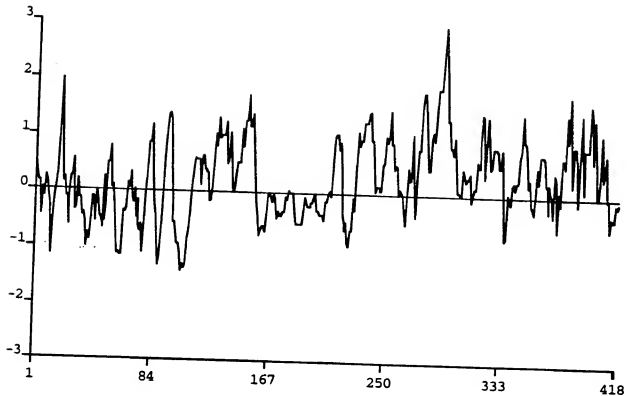


FIGURE 3A

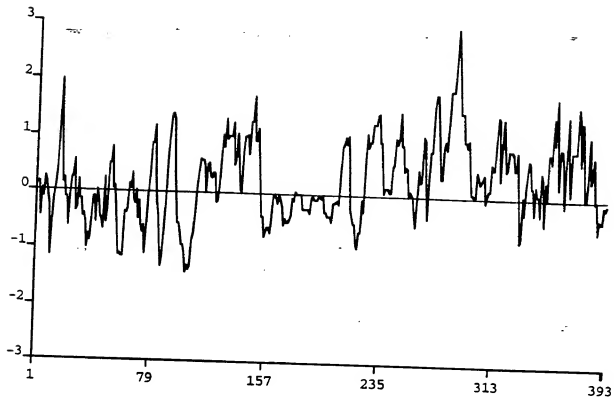


FIGURE 3B